

# Seasons of Earth

Name \_\_\_\_\_ Period: \_\_\_\_\_

1. In this assignment, you will draw the position of Earth relative to the sun for the different seasons in the Northern Hemisphere. Label your drawing as summer, winter, fall, and spring.
2. What happens during an equinox?

Draw an equinox; be sure to properly show the position of sun and Earth:

What happens during a solstice?

Draw a solstice, and label which one you drew:

3. Date of the vernal equinox \_\_\_\_\_

Summer solstice \_\_\_\_\_

Autumnal equinox \_\_\_\_\_

Winter solstice \_\_\_\_\_

4. Draw the sun, Earth and moon during a solar eclipse:

5. Draw the sun, Earth and moon during a lunar eclipse:

6. Define these terms:

Umbra

Penumbra

Rotation

Revolution

Solar Day

Coriolis Effect

Synchronous Rotation

7. Earth has a  $23^\circ$  tilt with respect to what?

8. What are the effects of Earth's tilt?

9. What would be different if Earth's tilt were  $35^\circ$ ?

10. What would be different if Earth was not tilted?